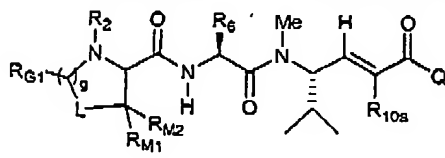


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-55 (Canceled)

56. (New) An intermediate for the preparation of a compound having the structure:



wherein g is 1, 2, 3 or 4;

L is $CR_{L1}R_{L2}$, S, O or NR_{L3} , wherein each occurrence of R_{L1} , R_{L2} and R_{L3} is independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

each occurrence of R_{G1} , R_{M1} and R_{M2} is each independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and

wherein any two adjacent R_{L1} , R_{L2} , R_{L3} , R_{G1} , R_{M1} or R_{M2} groups, taken together, form a substituted or unsubstituted alicyclic or heteroalicyclic moiety containing 3-6 atoms or an aryl or heteroaryl moiety;

R_2 is hydrogen, $-(C=O)R_C$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein each occurrence of R_C is independently hydrogen, OH, OR_D , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_D is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

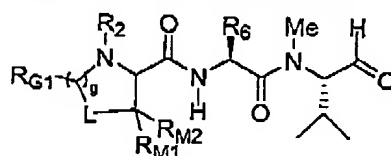
R_6 is hydrogen, $-(C=O)R_E$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, wherein each occurrence of R_E is independently hydrogen, OH, OR_F , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_F is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

Q is $OR^{Q'}$, $SR^{Q'}$, $NR^{Q'}R^{Q''}$, N_3 , $=N-OH$, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein $R^{Q'}$ and $R^{Q''}$ are each independently

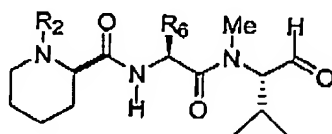
hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or $R^{Q'}$ and $R^{Q''}$, taken together with the nitrogen atom to which they are attached, may form an alicyclic, heteroalicyclic, alicyclic(aryl), heteroalicyclic(aryl), alicyclic(heteroaryl) or heteroalicyclic(heteroaryl) moiety, or an aryl or heteroaryl moiety; and

R_{10a} is hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

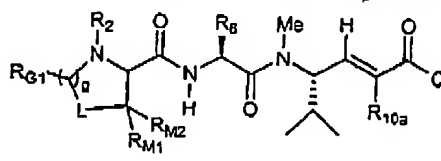
wherein said intermediate has the following structure:



57. (New) The intermediate of claim 56 having the structure:



58. (New) An intermediate for the preparation of a compound having the structure:



wherein g is 1, 2, 3 or 4;

L is $CR_{L1}R_{L2}$, S , O or NR_{L3} , wherein each occurrence of R_{L1} , R_{L2} and R_{L3} is independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

each occurrence of R_{G1} , R_{M1} and R_{M2} is each independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and

wherein any two adjacent R_{L1} , R_{L2} , R_{L3} , R_{G1} , R_{M1} or R_{M2} groups, taken together, form a substituted or unsubstituted alicyclic or heteroalicyclic moiety containing 3-6 atoms or an aryl or heteroaryl moiety;

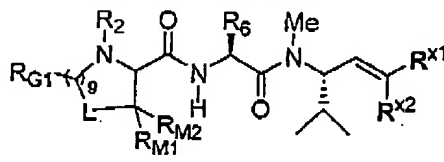
R_2 is hydrogen, $-(C=O)R_C$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein each occurrence of R_C is independently hydrogen, OH, OR_D , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_D is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

R_6 is hydrogen, $-(C=O)R_E$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein each occurrence of R_E is independently hydrogen, OH, OR_F , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_F is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

Q is $OR^{Q'}$, $SR^{Q'}$, $NR^{Q'}R^{Q''}$, N_3 , $=N-OH$, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein $R^{Q'}$ and $R^{Q''}$ are each independently hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or $R^{Q'}$ and $R^{Q''}$, taken together with the nitrogen atom to which they are attached, may form an alicyclic, heteroalicyclic, alicyclic(aryl), heteroalicyclic(aryl), alicyclic(heteroaryl) or heteroalicyclic(heteroaryl) moiety, or an aryl or heteroaryl moiety; and

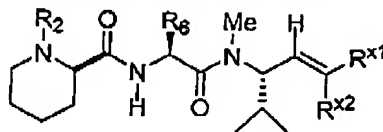
R_{10a} is hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

wherein said intermediate has the following structure:



wherein R^{x1} and R^{x2} are independently hydrogen, aliphatic, heteroaliphatic, aryl or heteroaryl.

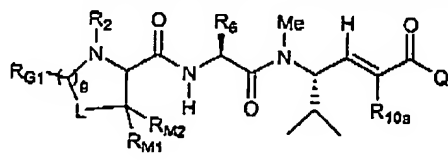
59. (New) The intermediate of claim 58 having the structure:



60. (New) The intermediate of claim 58 or 59 wherein R^{x1} and R^{x2} are independently hydrogen, alkyl or aryl.

61. (New) The intermediate of claim 58 or 59 wherein R^{x1} and R^{x2} are each hydrogen.

62. (New) An intermediate for the preparation of a compound having the structure:



wherein g is 1, 2, 3 or 4;

L is $CR_{L1}R_{L2}$, S , O or NR_{L3} , wherein each occurrence of R_{L1} , R_{L2} and R_{L3} is independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

each occurrence of R_{G1} , R_{M1} and R_{M2} is each independently hydrogen or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and

wherein any two adjacent R_{L1} , R_{L2} , R_{L3} , R_{G1} , R_{M1} or R_{M2} groups, taken together, form a substituted or unsubstituted alicyclic or heteroalicyclic moiety containing 3-6 atoms or an aryl or heteroaryl moiety;

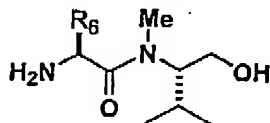
R_2 is hydrogen, $-(C=O)R_C$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein each occurrence of R_C is independently hydrogen, OH , OR_D , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_D is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

R_6 is hydrogen, $-(C=O)R_E$ or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein each occurrence of R_E is independently hydrogen, OH , OR_F , or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein R_F is an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

Q is $OR^{Q'}$, $SR^{Q'}$, $NR^{Q'}R^{Q''}$, N_3 , $=N-OH$, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; wherein $R^{Q'}$ and $R^{Q''}$ are each independently hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or $R^{Q'}$ and $R^{Q''}$, taken together with the nitrogen atom to which they are attached, may form an alicyclic, heteroalicyclic, alicyclic(aryl), heteroalicyclic(aryl), alicyclic(heteroaryl) or heteroalicyclic(heteroaryl) moiety, or an aryl or heteroaryl moiety; and

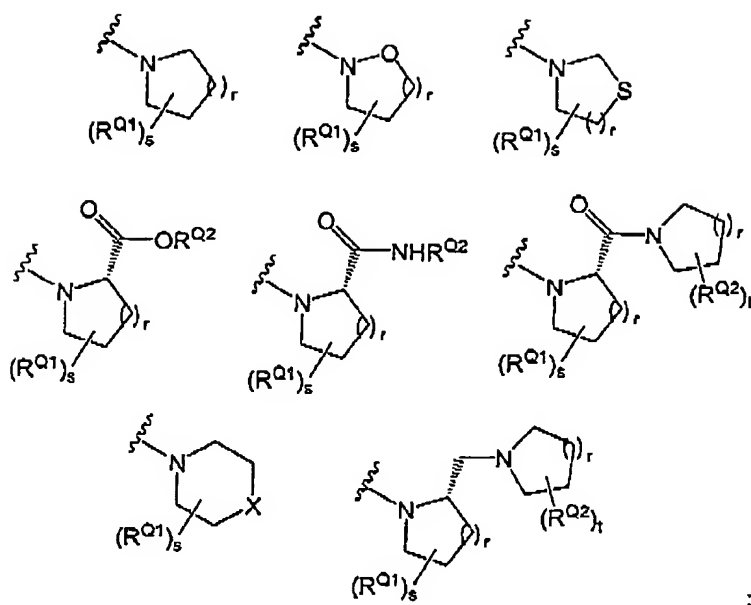
R_{10a} is hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

wherein said intermediate has the following structure:



63. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein R₂ is hydrogen, or a substituted or unsubstituted, linear or branched, cyclic or acyclic, or saturated or unsaturated lower alkyl, heteroalkyl, -alkyl(aryl) or acyl moiety.
64. (New) The intermediate of claim 63 wherein R₂ is methyl, ethyl, propyl, butyl, pentyl, *tert*-butyl, *i*-propyl, -CH(CH₃)Et, -CH(CH₃)CH₂CH₂CH₃, -CH(CH₃)CH₂CH₂CH₂CH₃, -CH₂CH(CH₃)₂, -CH(CH₃)CH(CH₃)₂, -C(CH₃)₂Et, -CH(CH₃)cyclobutyl, -CH(Et)₂, -C(CH₃)₂C≡CH, cyclohexyl, cyclopentyl, cyclobutyl or cyclopropyl.
65. (New) The intermediate of claim 63 wherein R₂ is methyl, ethyl, propyl or *i*-propyl.
66. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein R₆ is methyl, ethyl, propyl, butyl, pentyl, *tert*-butyl, *i*-propyl, -CH(CH₃)CH₂CH₃, -CH₂CH(CH₃)₂, cyclohexyl, cyclopentyl, cyclobutyl or cyclopropyl; and R₂ is methyl, ethyl, propyl, butyl, pentyl, *tert*-butyl, *i*-propyl, -CH(CH₃)Et, -CH(CH₃)CH₂CH₂CH₃, -CH(CH₃)CH₂CH₂CH₂CH₃, -CH₂CH(CH₃)₂, -CH(CH₃)CH(CH₃)₂, -C(CH₃)₂Et, -CH(CH₃)cyclobutyl, -CH(Et)₂, -C(CH₃)₂C≡CH, cyclohexyl, cyclopentyl, cyclobutyl or cyclopropyl.
67. (New) The intermediate of claim 66 wherein R₆ is *tert*-butyl.
68. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein R_{G1} is hydrogen, substituted or unsubstituted, linear or branched, cyclic or acyclic, or saturated or unsaturated lower alkyl or substituted or unsubstituted phenyl.

69. (New) The intermediate of claim 68 wherein R_{G1} is hydrogen, methyl or phenyl.
70. (New) The intermediate of claim 68 wherein R_{G1} is hydrogen.
71. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein R_{M1} and R_{M2} are each independently hydrogen, hydroxyl, a substituted or unsubstituted, linear or branched, cyclic or acyclic, or saturated or unsaturated lower alkyl moiety; a substituted or unsubstituted phenyl moiety, or R_{M2} is absent when R_{M1} and the substituents on L, taken together, form a substituted or unsubstituted aryl or heteroaryl moiety.
72. (New) The intermediate of claim 71 wherein R_{M1} and R_{M2} are each hydrogen.
73. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein g is 1 or 2.
74. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein L is $CR_{L1}R_{L2}$ wherein R_{L1} and R_{L2} are each independently hydrogen, substituted or unsubstituted, linear or branched, cyclic or acyclic, or saturated or unsaturated lower alkyl or substituted or unsubstituted phenyl.
75. (New) The intermediate of claim 74 wherein L is CH_2 .
76. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein R_{10a} is hydrogen or substituted or unsubstituted, linear or branched, cyclic or acyclic, saturated or unsaturated lower alkyl.
77. (New) The intermediate of claim 76 wherein R_{10a} is methyl.
78. (New) The intermediate of claim 56, 57, 58, 59 or 62 wherein Q is OR^Q , SR^Q , $NR^Q R^Q$, N_3 , $=N-OH$, or a moiety selected from the group consisting of:



wherein each occurrence of r is 0, 1 or 2; s and t are independently an integer from 0-8; X is O, S, or NR^K ; each occurrence of R^{Q1} and R^{Q2} is independently hydrogen, halogen, $-\text{CN}$, $-\text{S}(\text{O})_h\text{R}^J$, $-\text{NO}_2$, $-\text{COR}^J$, $-\text{CO}_2\text{R}^J$, $-\text{NR}^J\text{COR}^J$, $-\text{NR}^J\text{CO}_2\text{R}^J$, $-\text{CONR}^J\text{R}^J$, $-\text{CO}(\text{NOR}^J)\text{R}^J$, aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or $-\text{Z}_1\text{R}^J$; wherein h is 1 or 2; and Z_1 is independently $-\text{O}-$, $-\text{S}-$, NR^K , $-\text{C}(\text{O})-$, wherein each occurrence of R^J and R^K is independently hydrogen, COR^L , COOR^L , CONR^LR^M , $-\text{NR}^L\text{R}^M$, $-\text{S}(\text{O})_2\text{R}^L$, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, and wherein each occurrence of R^L and R^M is independently hydrogen, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and $\text{R}^{\text{Q'}}$ and $\text{R}^{\text{Q''}}$ are independently hydrogen, or a substituted or unsubstituted, linear or branched, cyclic or acyclic alkyl or heteroalkyl moiety, or a substituted or unsubstituted aryl or heteroaryl moiety; or $\text{R}^{\text{Q'}}$ and $\text{R}^{\text{Q''}}$, taken together with the nitrogen atom to which they are attached, form a substituted or unsubstituted heterocyclic, aryl or heteroaryl moiety.

79. (New) The intermediate of claim 78 wherein Q is $\text{OR}^{\text{Q'}}$, wherein $\text{R}^{\text{Q'}}$ is hydrogen, or a substituted or unsubstituted, linear or branched, cyclic or acyclic alkyl or heteroalkyl moiety, or a substituted or unsubstituted aryl or heteroaryl moiety.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.